

V. Balasubramanian

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NEWS 4 Oct 27 SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files  
NEWS 5 Oct 27 Patent Assignee Code Dictionary now available in Derwent Patent Files  
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NEWS 14 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
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FILE 'HOME' ENTERED AT 18:51:40 ON 17 APR 2001

=> file reg

09/678,330

Page 1

V. Balasubramanian

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 18:51:45 ON 17 APR 2001  
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for details.

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1015

L1 SCREEN CREATED

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Uploading c:\stnexp4\queries\09678330.str

L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

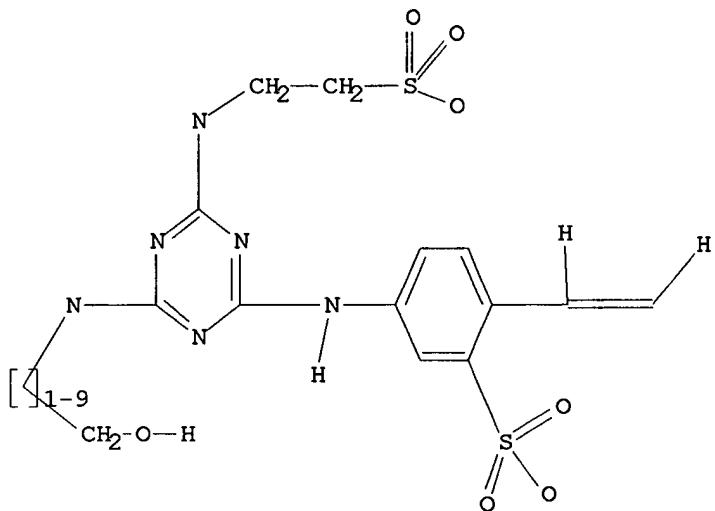
=> d 12

L2 HAS NO ANSWERS  
L2 STR

09/678,330

Page 2

V. Balasubramanian



Structure attributes must be viewed using STN Express query preparation.

=> s 12 sss sam

SAMPLE SEARCH INITIATED 18:52:24 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS  
SEARCH TIME: 00.00.01

## 2 ANSWERS

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	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	93 TO	587
PROJECTED ANSWERS:	2 TO	124

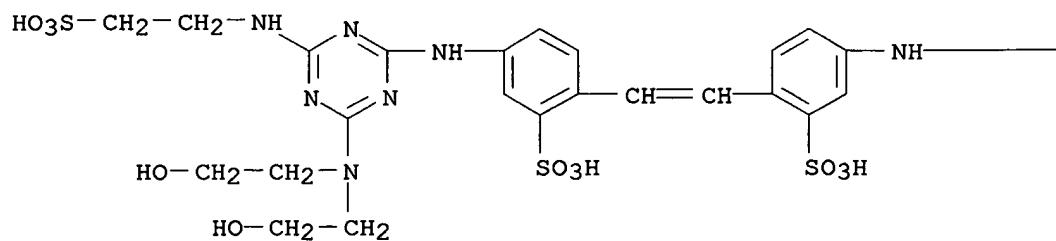
L4 2 SEA SSS SAM L2

=> d scan

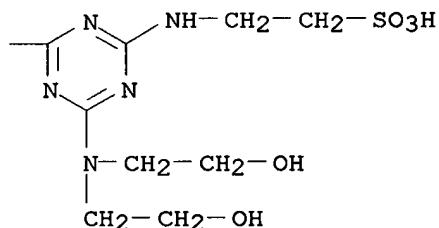
L4 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
IN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, compd. with 2,2'-iminobis[ethanol] (1:4) (9CI)  
MF C32 H44 N12 O16 S4 . 4 C4 H11 N O2

CM 1

PAGE 1-A



PAGE 1-B



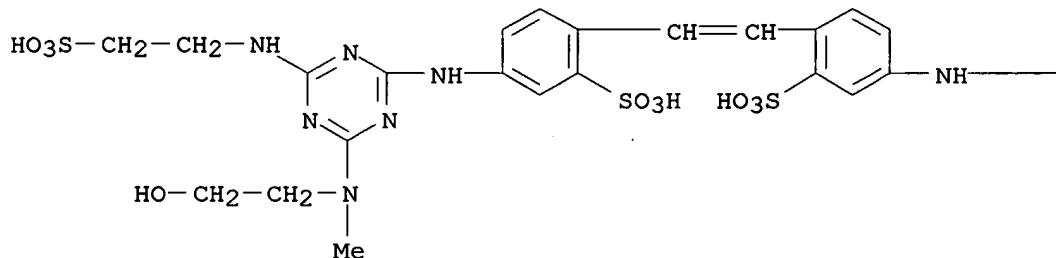
CM 2

HO-CH<sub>2</sub>-CH<sub>2</sub>-NH-CH<sub>2</sub>-CH<sub>2</sub>-OH

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

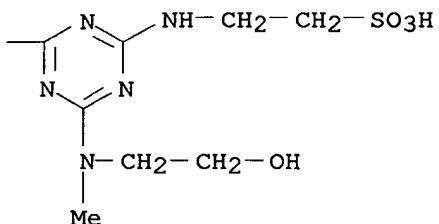
L4 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
 IN 2,2'-Stilbenedisulfonic acid,  
 4,4'-bis[4-[(2-hydroxyethyl)methylamino]-6-  
 [(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, tetrasodium salt (8CI)  
 MF C30 H40 N12 O14 S4 . 4 Na

PAGE 1-A



● 4 Na

PAGE 1-B



ALL ANSWERS HAVE BEEN SCANNED

=&gt; s 12 sss ful

FULL SEARCH INITIATED 18:52:55 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 296 TO ITERATE

100.0% PROCESSED 296 ITERATIONS  
 SEARCH TIME: 00.00.02

17 ANSWERS

L5 17 SEA SSS FUL L2

=&gt; file caplus

COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE  
 ENTRY  
 133.87

TOTAL  
 SESSION  
 134.02

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FILE COVERS 1967 - 17 Apr 2001 VOL 134 ISS 17  
FILE LAST UPDATED: 16 Apr 2001 (20010416/ED)

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=> s 15

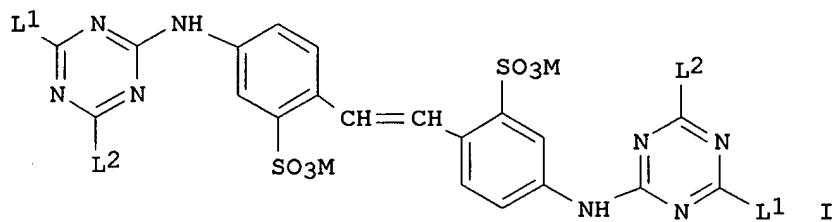
L6 17 L5

=> d 16 1-17 bib abs hitstr

L6 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2001 ACS  
AN 1998:251403 CAPLUS  
DN 128:328731  
TI Method for processing camera-use silver halide color photographic material  
using a stilbene-containing fixer  
IN Sakurazawa, Mamoru  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 47 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
----- ----- ----- -----  
PI JP 10104809 A2 19980424 JP 1996-261023 19961001  
GI

09/678,330

Page 6



**AB**      Claimed method utilizes a fixing soln. contg. a triazinylaminostilbene I ( $L^1, L^2 = OR_1, NR_2R_3; R_1, R_2, R_3 = H, alkyl$ ), in which the color photog. material is for camera-use and has .gtoreq.2 each of blue-, green- and red-sensitive emulsion layers. The compd. I is a fluorescent brightener effective in fixing soln. and washes out the residual dyes, consequently it reduces color stain remaining in the processed material. Thus, a fixer

soln. contg. the fluorescent brightener I ( $L^1, L^2 = NaSO_3C_2H_4NH^-$ ) or I ( $L^1, L^2 = NaSO_3OC_2H_4O^-$ ), etc. was applied to the processing of multilayer color neg. films and showed the mentioned advantages.

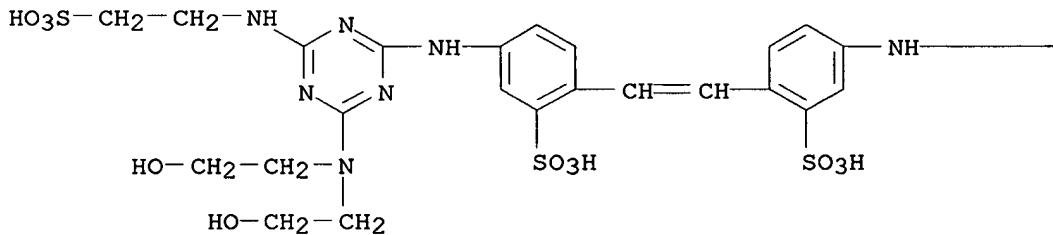
**IT 119729-06-5**

RL: TEM (Technical or engineered material use); USES (Uses)  
(processing color photog. film using triazinylaminostilbene-contg. fixer)

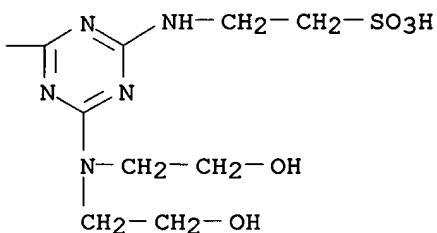
**RN 119729-06-5 CAPLUS**

**CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)**

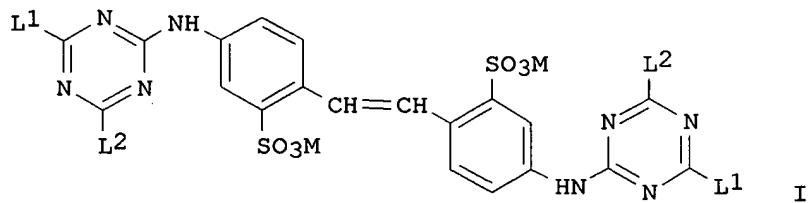
PAGE 1-A



● 4 Na



L6 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2001 ACS  
 AN 1997:636394 CAPLUS  
 DN 127:324410  
 TI Silver halide color photographic material with low residual color for  
 easy  
 color compensation and good color reproducibility  
 IN Sakurazawa, Mamoru; Sakurada, Masami; Mikoshiba, Hisashi; Taniguchi,  
 Masato  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 61 pp.  
 CODEN: JKXXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 09251197 A2 19970922 JP 1996-86005 19960315  
 GI



AB In the title photog. material comprising red, green and blue-sensitive  
 layers, the photog. material contains a triazinyl-having stilbene compd.  
 I  
 (L1, L2 = OR1, NR2R3, SO3M, OSO3M, CO2M, NR3X, OR, NR'R" CN, NHCONH2;  
 R1-3 = H, alkyl; M = H, alk. metal, tetraalkylammonium, pyridium; R, R', R" =  
 alkyl; R' may joint with R" to form a ring) and a hydroxy amine compd.  
 such as R1aR2aNOH (R1a alkyl, cycloalkyl, alkenyl, cyclo alkenyl, aryl,  
 acyl, alkyl- or arylsulfonyl, carbamoyl, sulfamoyl, alkoxy carbonyl,  
 aryloxycarbonyl; R2a = H or group defined as R1a).  
 IT 119729-06-5 164515-94-0  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES  
 (Uses)

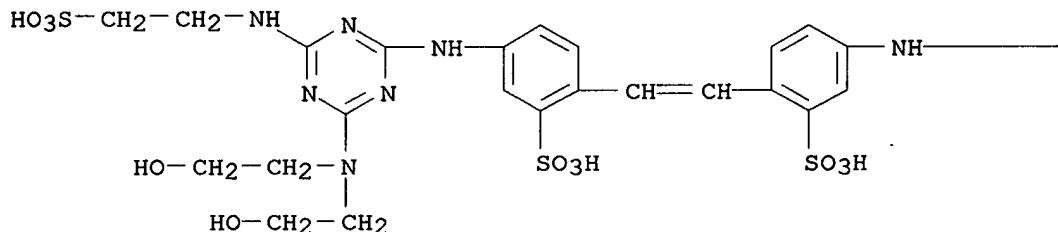
V. Balasubramanian

(stilbene compd. as fluorescent whitening agent contained in color  
photog. film)

RN 119729-06-5 CAPLUS

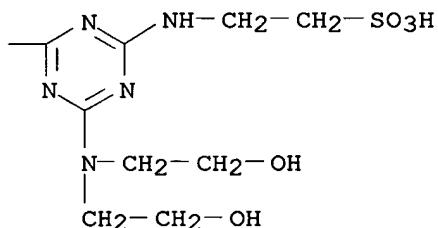
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

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●4 Na

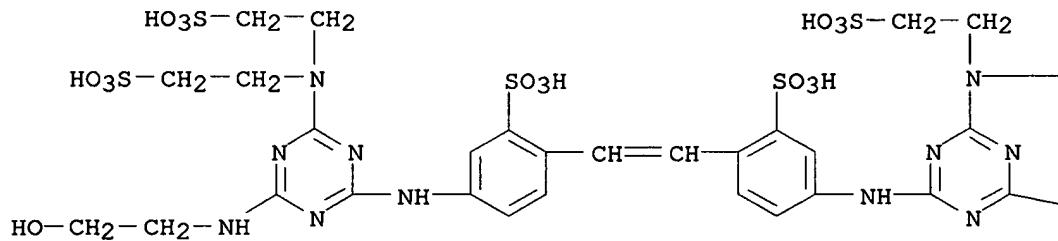
PAGE 1-B



RN 164515-94-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

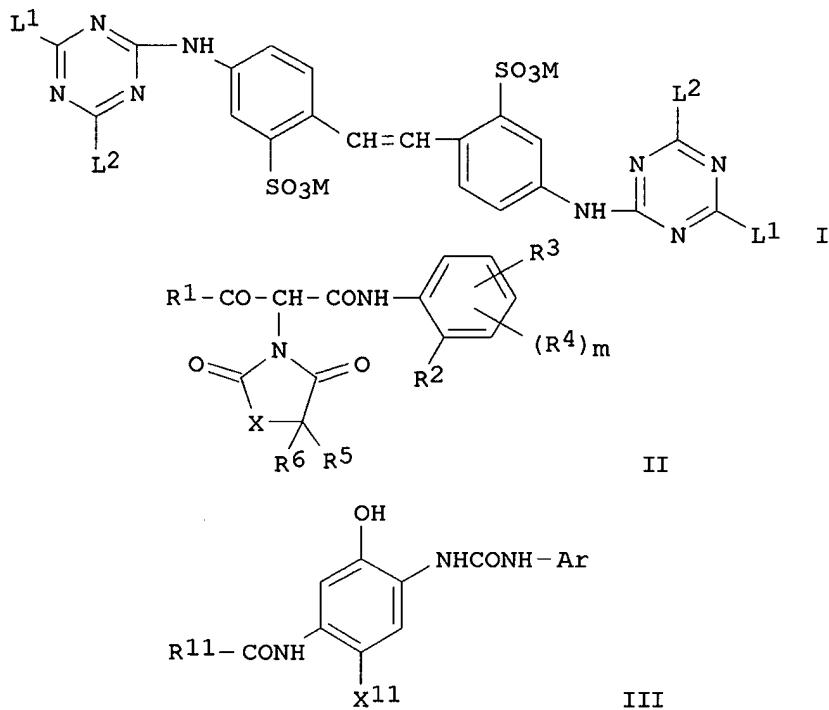


●6 Na

PAGE 1-B

— CH<sub>2</sub>— CH<sub>2</sub>— SO<sub>3</sub>H— NH— CH<sub>2</sub>— CH<sub>2</sub>— OH

L6 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2001 ACS  
 AN 1997:633008 CAPLUS  
 DN 127:324406  
 TI Silver halide photographic material with improved color reproduction  
 IN Sakurazawa, Mamoru; Sakurada, Masami  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 62 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 09251196 A2 19970922 JP 1996-84457 19960314  
 GI



AB In the title material comprising .gtoreq.1 yellow coupler-contg. blue-sensitive Ag halide emulsion layer(s), .gtoreq.1 magenta coupler-contg. green-sensitive Ag halide emulsion layer(s), and .gtoreq.1 cyan coupler-contg. red-sensitive Ag halide emulsion layer(s) on a support, the material contains a fluorescent brightener I (L1, L2 = -OR1, -NR2R3; R1-3 = H, alkyl; L1 and L2 may contain .gtoreq.4 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X; L1 and L2 may contain .gtoreq.2 substituents selected from -SO3M, -OSO3M, -COOM and -NR3X and .gtoreq.2 substituents selected from -OR, -NR'R'', -CN and -NHCONH2; M = H, alkali metal, tetraalkyl ammonium, pyridinium; R, R', R'' = H, alkyl; R'-R'' may form ring) and the yellow coupler is represented by II (R1 = tertiary alkyl; R2 = halo, alkoxy, aryloxy, alkyl, alkylsulfonyloxy, cycloalkyl; R3 = alkoxycarbonyl, alkylsulfonyloxy; R4 = halo, alkyl, alkoxy, carbonamide, sulfonamide; m = 0-2; R5, R6 = H, alkyl; X = O, S, imino). The cyan coupler may be represented by III (R11 = aliph., arom., heterocyclic; Ar = arom.; X11 = H, group capable of leaving upon coupling reaction with arom. primary amine developer oxide). The material reduces residual color caused by spectral sensitization dyes.

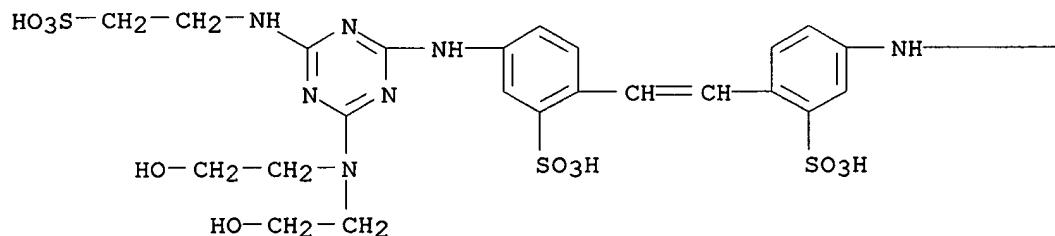
IT 119729-06-5 197661-28-2

RL: MOA (Modifier or additive use); USES (Uses)  
(fluorescent brightener in Ag halide photog. material with improved color reprodn.)

RN 119729-06-5 CAPPLUS

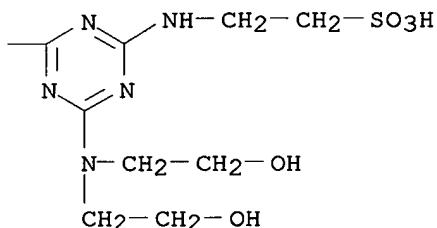
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●4 Na

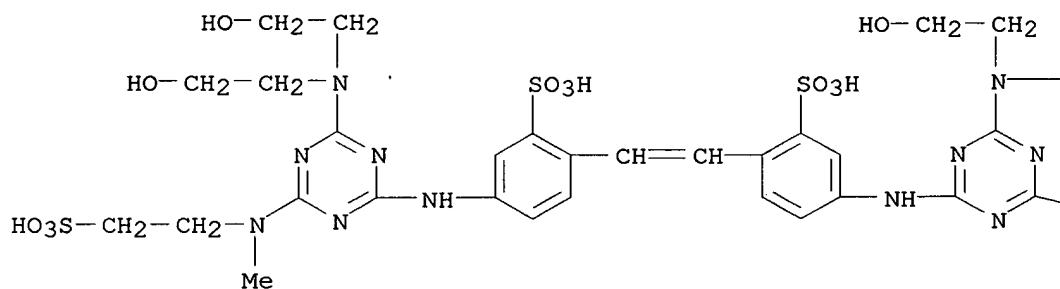
PAGE 1-B



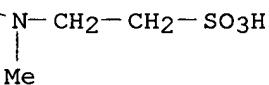
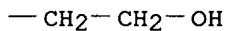
RN 197661-28-2 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[methyl(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●4 Na



L6 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2001 ACS  
 AN 1996:262110 CAPLUS  
 DN 124:356113  
 TI Method for processing silver halide photographic material using common wash water or stabilizer  
 IN Ishikawa, Takatoshi  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 76 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08022110	A2	19960123	JP 1994-173103	19940704

OS MARPAT 124:356113  
 GI For diagram(s), see printed CA Issue.  
 AB The claimed method for processing .gtoreq.2 kinds of different silver halide photog. material comprises (a) chromogenic development, (b) desilvering process, and (c) washing or stabilizing in which the wash water or stabilizer soln. has the surface tension 20-60 dyne/cm. Also claimed is the application of the process to the material contg. pyrazoloazole coupler I (R1 = H, substituent; Z = 5-membered condensed azole having 2-4 N atoms; X = H, leaving group to be released by the coupling reaction with the oxidized developing agent) or anilinopyrazole coupler II (R11 = substituent; R12 = electron-attracting group; m = 1-5; n = 2-5; X1 = leaving group to be released by the coupling reaction with the oxidized developing agent; coupler II may form a bis- or poly-pyrazolon by R11, R12 or X1 through a bivalent linkage). The stabilizer preferably contains a fluorescent brightener of ethylene-bis(sulfophenylaminotriazole) type.  
 IT 164515-94-0P  
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (fluorescent brightener; processing of Ag halide photog. material using common wash water or stabilizer)

09/678,330

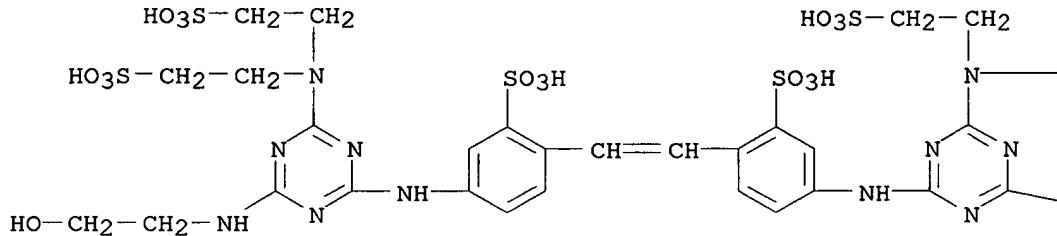
Page 13

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RN 164515-94-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●6 Na

PAGE 1-B

— CH<sub>2</sub>— CH<sub>2</sub>— SO<sub>3</sub>H

— NH— CH<sub>2</sub>— CH<sub>2</sub>— OH

L6 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1996:50756 CAPLUS

DN 124:189400

TI Method for processing silver halide color photographic paper and negative film by using common color developer solution

IN Fujimoto, Hiroshi

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 61 pp.

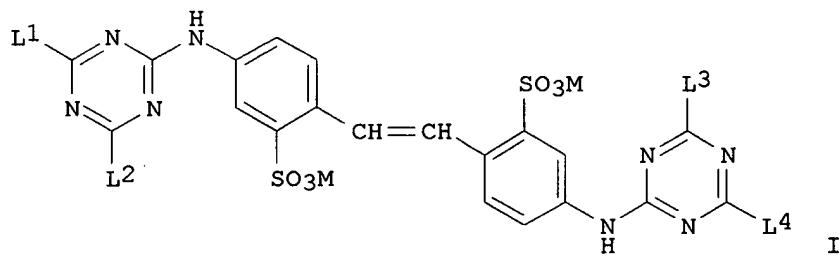
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07270991	A2	19951020	JP 1994-79277	19940328
OS	MARPAT	124:189400			
GI					



AB The claimed method comprises processing 2 different types of Ag halide color photog. material using a common processing soln. in which one of the photog. materials is for camera use and is characterized by (1) that the coated wt. of light-sensitive Ag halide is 2.0-10.0 g Ag/m<sup>2</sup> and (2) that the emulsion comprises tabular Ag halide grains contg. 50-100 mol% of AgCl, and the other is for print use comprising Ag halide grains contg. >0.80 mol% of AgCl. A developer for the process may contain a fluorescent brightener of dianostilbene I (L1-4 = OR<sub>3</sub>, NR<sub>4</sub>R<sub>5</sub>, halo, H, OH, alkyl, alkoxy, sulfo, ; R<sub>3</sub>-5 = H, alkyl). The camera film and print material specifying the above can be processed in a common solns. successfully.

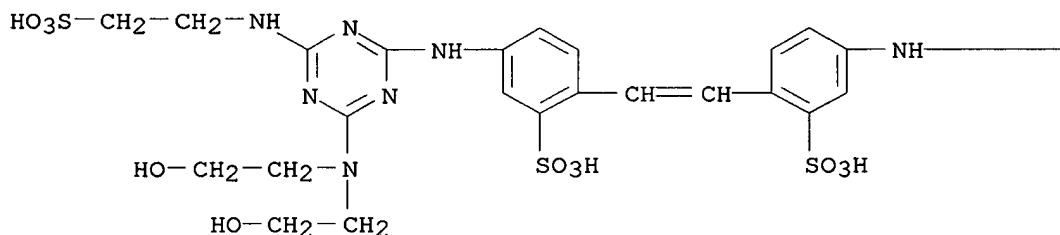
IT 119729-06-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(fluorescent brightener; processing of Ag halide color photog. paper and neg. film by using common color developer contg. aminostilbene)

RN 119729-06-5 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

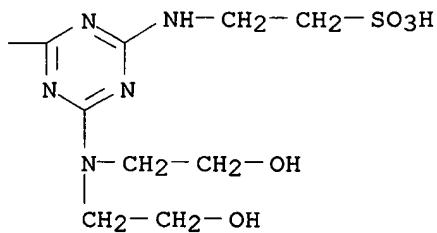
PAGE 1-A



●4 Na

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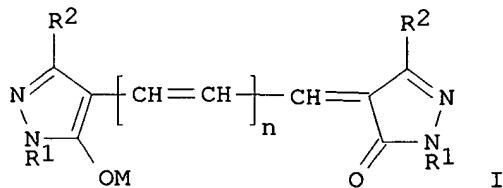
PAGE 1-B



L6 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2001 ACS  
AN 1995:767612 CAPLUS  
DN 123:183381  
TI Silver halide color photographic processing with suppressed stain formation  
IN Deguchi, Yasuaki  
PA Fuji Photo Film Co Ltd, Japan  
SO Jpn. Kokai Tokkyo Koho, 70 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07140625	A2	19950602	JP 1993-311057	19931118
OS MARPAT 123:183381				

GI



AB The title processing includes washing and/or stabilizing the photog. material contg. I (R1 = H, alkyl; R2 = substitute; n = 0, 1, 2; M = H, alkali metal) with replenishing soln. of .1toreq.120 mL/m<sup>2</sup>. The processing duration includes .1toreq.25 s of a desilvering process and completes .1toreq.120 s. The processing is carried out in the presence of claimed diaminostilbene compds.

IT 119729-06-5

RL: MOA (Modifier or additive use); USES (Uses)  
(silver halide color photog. processing with suppressed stain formation)

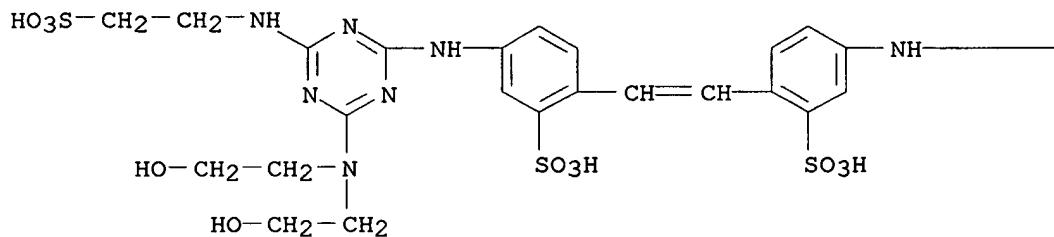
RN 119729-06-5 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyil)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, 09/678, 330 . Page 16

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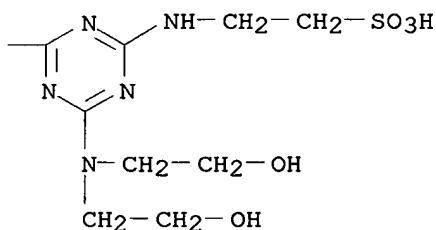
tetrasodium salt (9CI) (CA INDEX NAME)

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● 4 Na

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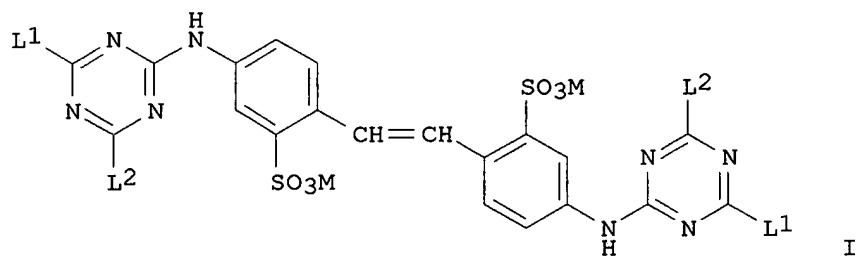


L6 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2001 ACS  
AN 1995:657553 CAPLUS  
DN 123:44267  
TI A diaminostilbene series compound and a method for forming an image using the same.  
IN Deguchi, Yasuaki; Kubo, Toshiaki  
PA Fuji Photo Film Co., Ltd., Japan  
SO Eur. Pat. Appl., 79 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 626374	A2	19941130	EP 1994-107713	19940518
	R: BE, DE, FR, GB, NL				
	JP 06329936	A2	1994-11-29	JP 1993-138999	19930518
	US 5395742	A	19950307	US 1994-243175	19940516
PRAI	JP-1993-138999		19930518		
OS	MARPAT	123:44267			
GI					

09/678,330

Page 17



AB There is disclosed a novel diaminostilbene series compd., a method for forming an image using the same, and a compn. comprising the same. The diaminostilbene compd. is I [L1 and L2 = -OR1 or -N-R2(R3), wherein the 4 substituents L1 and L2 have .gtoreq.4 substituents in total selected from substituents SO3M, OSO3M, CO2M, NR3X; R1 and R2 each = a H atom, an alkyl group, or an alkyl group having a substituent selected from substituents SO3M, OSO3M, CO2M, NR3X; R3 = R1 except H; M = a H atom, an alkali metal, an NH4+, or a pyridinium; X = a halogen atom; R = an alkyl group].

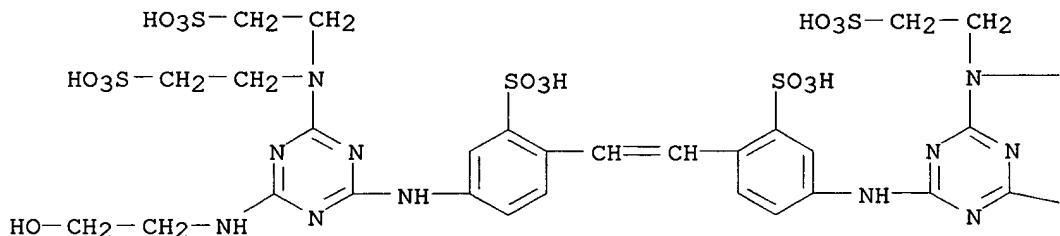
IT 164515-94-0P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(stabilizer for crystn. prevention in photog. processing soln.)

RN 164515-94-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[(4-[bis(2-sulfoethyl)amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



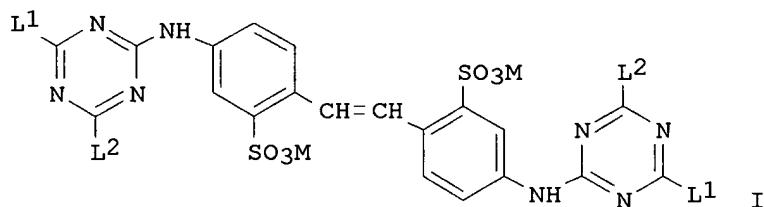
● 6 Na

— CH<sub>2</sub>— CH<sub>2</sub>— SO<sub>3</sub>H

— NH— CH<sub>2</sub>— CH<sub>2</sub>— OH

L6 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2001 ACS  
 AN 1995:526757 CAPLUS  
 DN 122:277996  
 TI Method for forming silver halide color photographic image  
 IN Deguchi, Yasuaki  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 82 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06332127	A2	19941202	JP 1993-138993	19930518
GI					

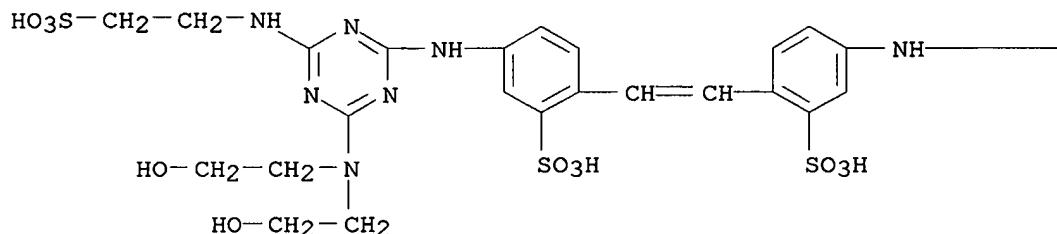


AB In the title method comprising the steps of (a) an imagewise exposure of  
 a photosensitive Ag halide emulsion layer on a support, (b) development,  
 (c) desilverization, and (d) H<sub>2</sub>O rinse, and/or (e) stabilization, (1) a Ag  
 halide emulsion used in the material comprises a AgCl-based emulsion with  
 a AgCl content  $\geq 90$  mol%, (2) an amt. of soln. used in said steps  
 is 200 mL per 1 m<sup>2</sup> of the photosensitive material, and (3)  $\geq 0.1$  of said  
 steps is carried out in the presence of a compd., I [L<sub>1,2</sub> = OR<sub>1</sub>, NR<sub>2</sub>R<sub>3</sub>;  
 R<sub>1-3</sub> = H, alkyl; M = H, alkali metal, tetraalkylammonium, pyridinium].  
 IT 119729-06-5 162784-05-6  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (formation of silver halide color photog. image)  
 RN 119729-06-5 CAPLUS

V. Balasubramanian

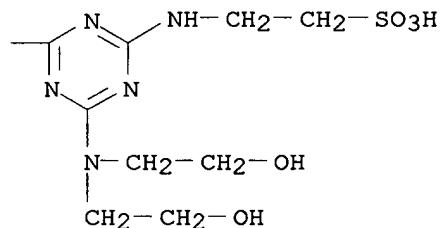
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● 4 Na

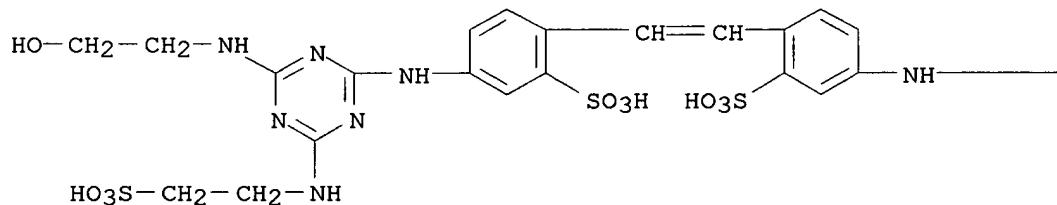
PAGE 1-B



RN 162784-05-6 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

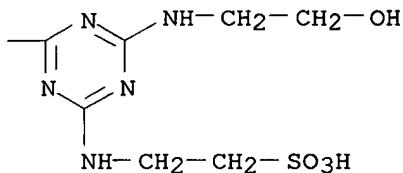
PAGE 1-A



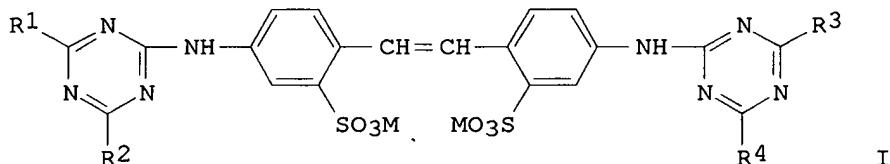
● 4 Na

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L6 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2001 ACS  
 AN 1990:88128 CAPLUS  
 DN 112:88128  
 TI Processing of color photographic material with bleach-fixing solution containing fluorescent brightener  
 IN Ishikawa, Takatoshi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 40 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI JP 01158443 A2 19890621 JP 1988-4948 19880114  
 JP 08033646 B4 19960329  
 PRAI JP 1987-219175 19870903  
 GI

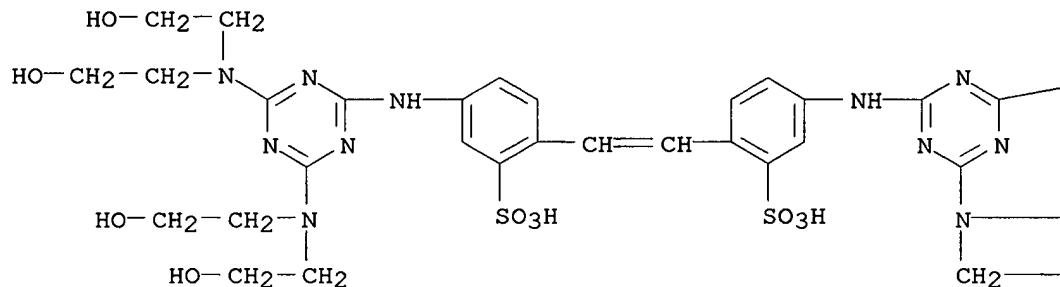


AB A color photog. material is treated with a bleach-fixing soln. contg. a fluorescent brightener I [R1-R4 = OH, alkoxy, amino, alkylamino, aryloxy, arylamino; (R1 = R3) .noteq. (R2 = R4); (R1 = R4) .noteq. (R2 = R3); M = monovalent cation]. The bleach-fixing soln. contains an aminopolycarboxylate Fe(III) complex as bleach. This treatment provides improved bleachability and reduced stains.  
 IT 125368-19-6  
 RL: USES (Uses)  
 (fluorescent brightener, photog. bleach-fixing soln. contg.)  
 RN 125368-19-6 CAPLUS  
 CN Benzenesulfonic acid,  
 5-[[4,6-bis[bis(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-[2-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]ethenyl]-, trisodium salt (9CI)  
 09/678,330

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(CA INDEX NAME)

PAGE 1-A



●3 Na

PAGE 1-B

— NH—CH<sub>2</sub>—CH<sub>2</sub>—SO<sub>3</sub>H

— CH<sub>2</sub>—CH<sub>2</sub>—OH

— CH<sub>2</sub>—OH

L6 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2001 ACS  
AN 1989:144850 CAPLUS  
DN 110:144850  
TI Direct positive color image formation  
IN Shiba, Keisuke; Inoue, Akiyuki; Hioki, Tatsuo; Ueda, Shinji  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 51 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63193146	A2	19880810	JP 1987-25737	19870206
AB	The title method (A) an internal latent image-type Ag halide grain has a 2-layer structure; the ratio of Ag halide in core/shell is 1/5:1-1:200; core particle is chem. sensitized; chem. sensitization using Au salt and 09/678,330				

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spectral sensitization using selected methine dye are carried out during or after formation of shell; and (B) color development is achieved by using a color developer with a pH of 9.5-11.5 in the presence of a nucleation promoter. A process time from initial color development to initial dry process is shorter than that for conventional process.

IT 119729-06-5

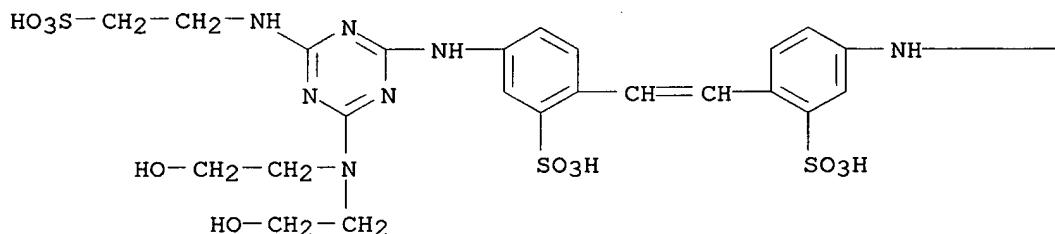
RL: USES (Uses)

(silver removal promoting agent, direct pos. color image formation using)

RN 119729-06-5 CAPLUS

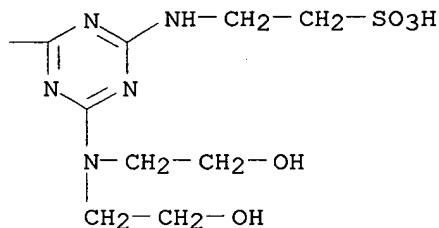
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●4 Na

PAGE 1-B



L6 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1984:87268 CAPLUS

DN 100:87268

TI Aqueous concentrates of water-soluble dyes and stilbene fluorescent brighteners

PA Showa Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

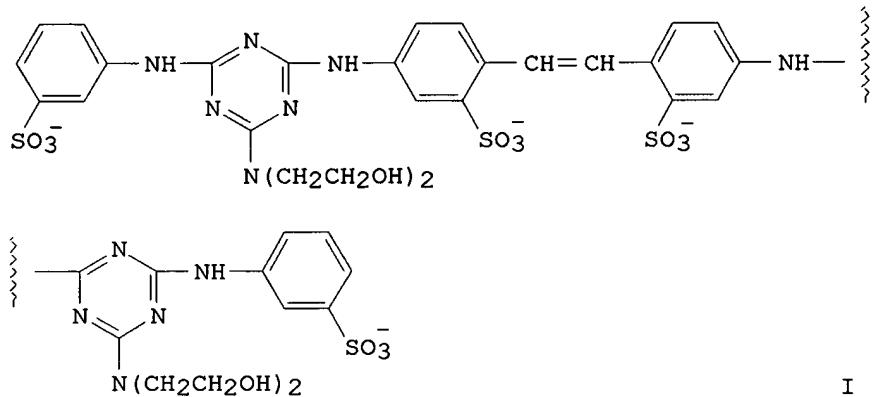
KIND DATE

APPLICATION NO. DATE

09/678,330

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PI JP 58174448 A2 19831013 JP 1982-56670 19820407  
 GI



AB Water-insol. metal salts (e.g., Ca salts) of anionic group-contg. water-sol. stilbene fluorescent brighteners and dyes are treated in water with a hydroxyalkylamine in the presence of an acid that dissocs. the metal salts, and the reaction mixts. are freed from the water-insol. materials formed to give the title concs. Thus, 2 mol cyanuric chloride [108-77-0] was condensed with 4,4'-diaminostilbene-2,2'-disulfonic acid [81-11-8] 1, metanilic acid [121-47-1] 2, and diethanolamine [111-42-2]

2

mol, treated with  $\text{CaCl}_2$  and filtered to give a 50% filter cake. The filter cake contg. 46.2 g I Ca salt [88849-19-8] was treated with 20.2 g  $(\text{HOCH}_2\text{CH}_2)_2\text{NH}$  and 39.2 g 20%  $\text{H}_2\text{SO}_4$  at alk. pH and 80-90.degree. for 1.5 h and filtered hot. The filter cake was washed with 20 mL water. The washing was combined with the filtrate and dild. with water to give a 35%-solids, yellowish-brown, clear soln. having excellent flowability, storability, and thinnability.

IT 88849-11-0P

RL: PREP (Preparation)  
 (fluorescent brighteners, aq. concs., manuf. of)

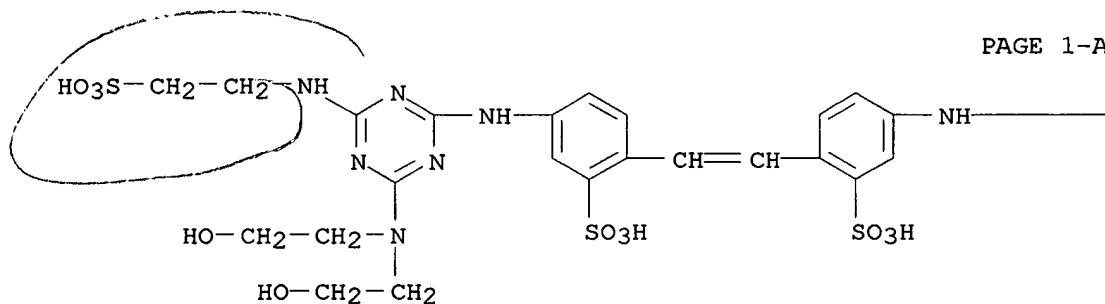
RN 88849-11-0 CAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, compd. with 2,2'-iminobis[ethanol] (1:4) (9CI) (CA INDEX NAME)

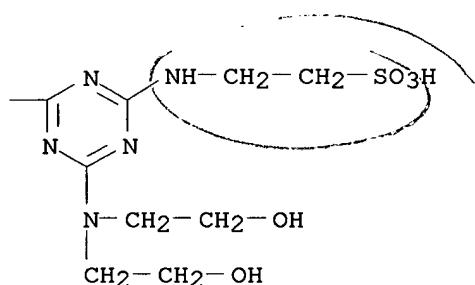
CM 1

CRN 88849-10-9  
 CMF C32 H44 N12 O16 S4

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PAGE 1-B



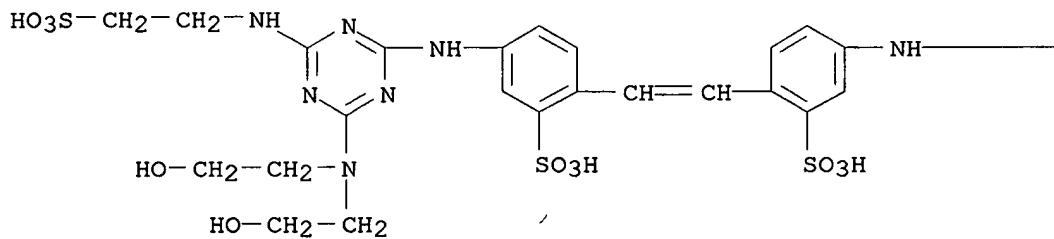
CM 2

CRN 111-42-2  
CMF C4 H11 N O2HO-CH<sub>2</sub>-CH<sub>2</sub>-NH-CH<sub>2</sub>-CH<sub>2</sub>-OH

IT **88849-00-7**  
 RL: PROC (Process)  
 (solubilization of)  
 RN 88849-00-7 CAPLUS  
 CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, calcium salt (1:2) (9CI) (CA INDEX NAME)

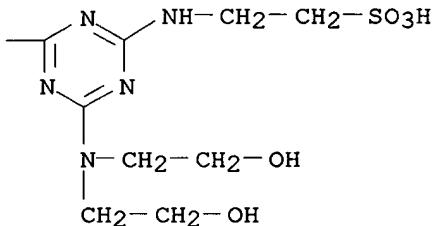
V. Balasubramanian

PAGE 1-A



● 2 Ca

PAGE 1-B



L6 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1974:97352 CAPLUS

DN 80:97352

## TI      Fluorescent whiteners

IN Pirkl, Jaromí

SO Czech., 3 pp.

**CODEN:**

DT Patent

LA Czech

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CS 149743	B	19730823	CS 1969-2816	19690421
AB Fluorescent whiteners (I, R = H, o- and p-Me, p-Cl; R1 = morpholino, Et2N,				
PhNH, m-HO3SC6H4NH; Z = CH:CH) were prep'd. Thus, 4,2-H2N(HO3S)C6H3CH:CHC6H3(SO3H)NH2-2,4 and cyanuric chloride was condensed and the bis(chlorotriazinyl) compd. treated with phenyltaurine and morpholine to give fluorescent whitener I(R = H, R1 = morpholino) [51248-77-2]. The other I were similarly prep'd.				

IT 51358-19-1P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of)

RN 51358-19-1 CAPLUS

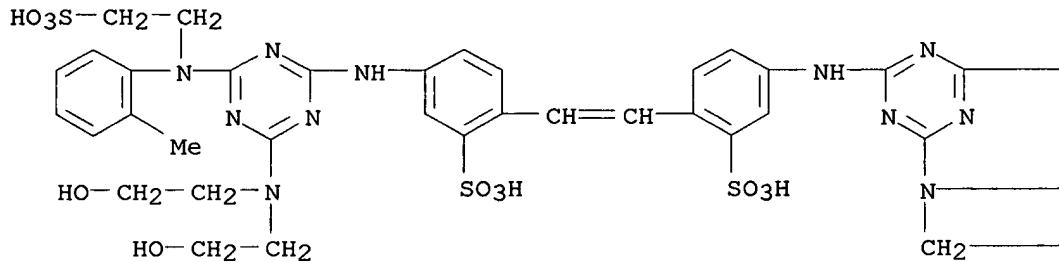
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-

hydroxyethyl)amino]-6-[(2-methylphenylamino)ethyl]amino]-1,3,5-triazine Page 26

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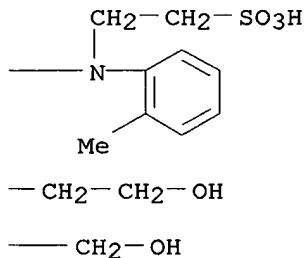
2-yl]amino]-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●2 Na

PAGE 1-B



L6 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1972:553926 CAPLUS

DN 77:153926

TI Stilbene fluorescent whiteners

IN Pirkl, Jaromir

SO Czech., 4 pp.

CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 142270		19710815	CS 1969-2241	19690328
AB Three fluorescent whiteners [I, R = N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> , MeO, Cl] for polyamide and cellulose fibers were prepd. which had good H <sub>2</sub> O-soly., stability to heavy metals and lightfastness. For example, cyanuric chloride was condensed successively with HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> SO <sub>3</sub> Na, 2,4-NaO <sub>3</sub> S(H <sub>2</sub> N)C <sub>6</sub> H <sub>3</sub> CH:CHC <sub>6</sub> H <sub>3</sub> (NH <sub>2</sub> )SO <sub>3</sub> Na-4,2, and (HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NH to give fluorescent whitener I[R = N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> ] [36903-13-6].					
IT	<b>36903-13-6P</b>				
RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)					

09/678,330

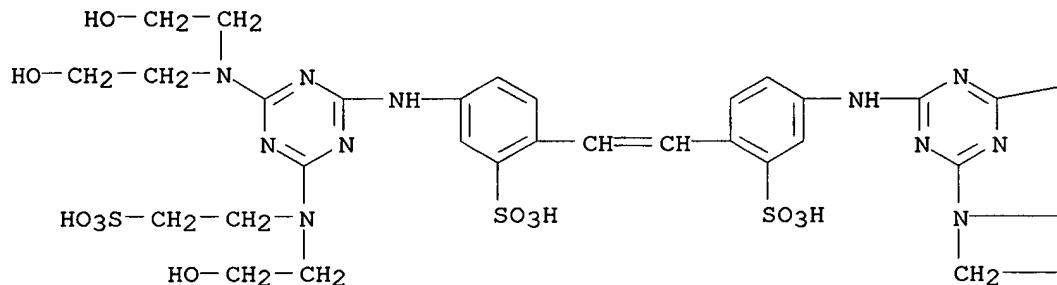
Page 27

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RN 36903-13-6 CAPLUS

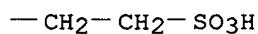
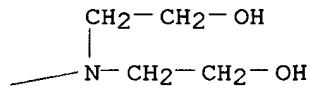
CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-hydroxyethyl)(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●4 Na

PAGE 1-B



L6 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1971:100612 CAPLUS

DN 74:100612

TI 4,4'-Diaminostilbene-2,2'-disulfonates as whitening agents

IN Pirkl, Jaromir

PA Vyzkumny Ustav Organickyh Syntez

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2015079	A	19701210	DE 1970-2015079	19700328

09/678,330

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PRAI CS 1969-2241 19690328

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), fluorescent whitening agents for cellulose and polyamide materials were prepd. Thus, reaction of cyanuric chloride with HOCH<sub>2</sub>CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H at 0-5.degree. and treatment of the reaction product successively with 4,4'-diamino-2,2'-stilbenedisulfonic acid and (HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NH gave yellow powdery I [R = N(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub>]. Similarly were prepd. I (R = Cl) and I [R = N(CH<sub>2</sub>CH<sub>2</sub>OH)CH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>Na].

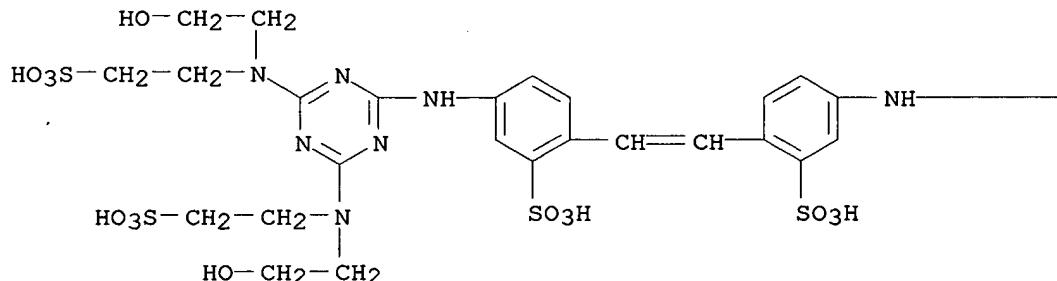
IT 31616-59-8P 31721-40-1P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of)

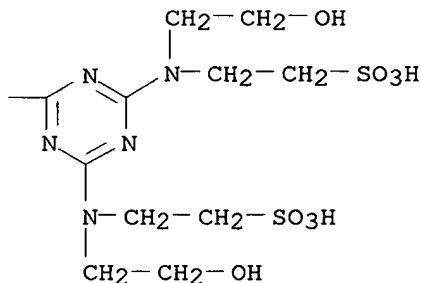
RN 31616-59-8 CAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[[4,6-bis[(2-hydroxyethyl)(2-sulfoethyl)amino]-s-triazin-2-yl]amino]- (8CI) (CA INDEX NAME)

PAGE 1-A



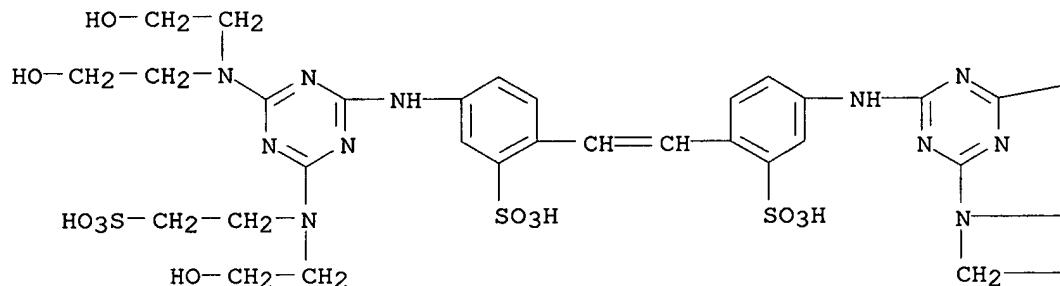
PAGE 1-B



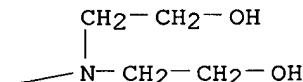
RN 31721-40-1 CAPLUS

CN 2,2'-Stilbenedisulfonic acid,  
4,4'-bis[[4-[bis(2-hydroxyethyl)amino]-6-[(2-hydroxyethyl)(2-sulfoethyl)amino]-s-triazin-2-yl]amino]- (8CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L6 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1971:88606 CAPLUS

DN 74:88606

TI Fluorescent whitening of fibers

IN Hayakawa, Ginshichiro; Kenmoto, Takeshi; Nanbu, Morio

PA Nisso Chemical Industries, Ltd.

SO Japan., 6 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 45027556	B4	19700909	JP	19660304

GI For diagram(s), see printed CA Issue.

AB 4,4'-Diaminostilbene-2,2'-disulfonic acid derivs. [I, where R = H or Me and R1 and R2 = H or HOCH<sub>2</sub>CH<sub>2</sub>, or (R1R2 =) morpholin o], prep'd. by the usual cyanuric chloride-amine condensation, are fluorescent whiteners for

cotton textiles, Thus, cotton textiles were impregnated in a bath contg. 1:1 mixt. of I (R = R1 = H, R2 = HOCH<sub>2</sub>CH<sub>2</sub>) and NaCl.

IT 21681-46-9

RL: USES (Uses)  
(fluorescent brightening agents, for textile)

RN 21681-46-9 CAPLUS

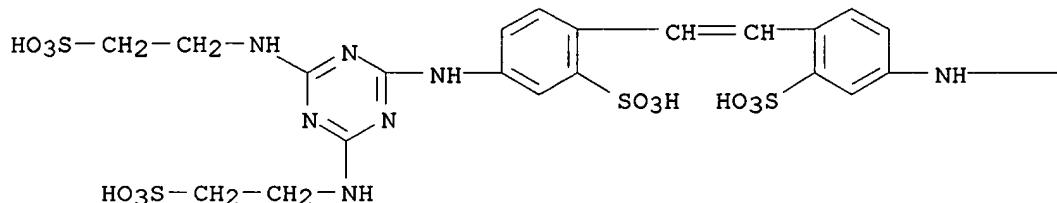
CN 2,2'-Stilbenedisulfonic acid,

4-[[4,6-bis[(2-sulfoethyl)amino]-s00763830-

V. Balasubramanian

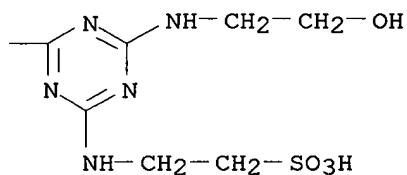
yl]amino]-4'-(4-[2-hydroxyethyl]amino)-6-[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, pentasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



●5 Na

PAGE 1-B



L6 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2001 ACS  
AN 1970:426621 CAPLUS  
DN 73:26621  
TI 4,4'-Bis(1,3,5-triazin-6-ylamino)stilbene-2,2'-disulfonates as optical  
whitening agents for textiles  
IN Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tado; Sato, Syozi  
PA Sumitomo Chemical Co. Ltd.  
SO Ger. Offen., 24 pp.  
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1946316	A	19700416	DE 1969-1946316	19690912
	DE 1946316	B2	19730405		
	DE 1946316	C3	19731031		
	GB 1268108	A	19720322	GB 1969-1268108	19690908
	NL 6913863	A	19700316	NL 1969-13863	19690911
	NL 159739	B	19790315		
	FR 2019428	A5	19700703	FR 1969-31014	19690911
	ES 371427	A1	19711016	ES 1969-371427	19690911
	CH 518955	A	19720215	CH 1969-518955	19690911
	BE 738842	A	19700216	BE 1969-738842	19690912

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PRAI JP 1968-65783 19680912  
 JP 1968-66312 19680914

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), were prep'd. and used as optical brightening agents during the final resin treatment of cotton or polyamide textiles. Thus I (R = morpholine) was prep'd. from cyanuric chloride, 4,2-H2N(HO3S)C6H3CH:CHC6H3(SO3H)NH2-2,4, H2NCH2CH2SO3H, and morpholine. Similarly other I were prep'd. (R given): HOCHMeCH2NH; HOCH2CH2NH; HOCH2CH2NMe; (HOCH2CH2)2N; (HOCHMeCH2)2N.

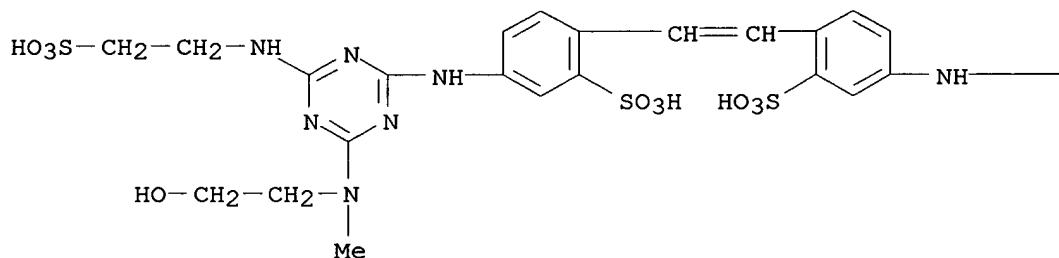
IT 28089-70-5P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. of)

RN 28089-70-5 CAPLUS

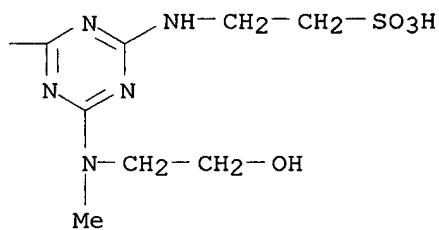
CN 2,2'-Stilbenedisulfonic acid,  
 4,4'-bis[[4-[(2-hydroxyethyl)methylamino]-6-  
 [(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, tetrasodium salt (8CI) (CA  
 INDEX NAME)

PAGE 1-A



● 4 Na

PAGE 1-B



L6 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2001 ACS

AN 1969:422926 CAPLUS

DN 71:22926

TI Stilbene fluorescent whitening agents

IN Hayakawa, Ginshichiro; Kemimoto, Takeshi; Nambu, Morio

PA Nisso Chemical Industries, Ltd.

09/678,330

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V. Balasubramanian

SO Japan., 6 pp.  
CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 44006983	B4	19690327	JP	19660304

GI For diagram(s), see printed CA Issue.  
AB Compds. of the general formula I are optical brighteners for cellulose and

polyamide fibers and are compatible with MgCl<sub>2</sub> or Zn(NO<sub>3</sub>)<sub>2</sub> in resin treatment. Thus, a soln. of 3.7 g. cyanuric chloride in aq. Me<sub>2</sub>CO was stirred at 0.degree., treated with 3.7 g. 4,2-H<sub>2</sub>N(NaO<sub>3</sub>S)C<sub>6</sub>H<sub>3</sub>CH:CHC<sub>6</sub>H<sub>3</sub>(SO<sub>3</sub>Na)-NH<sub>2</sub>-2,4, followed by 3.75 g. H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H (II) at 20.degree.. The mixt. was stirred for 2 hrs. at 40.degree. with the addn. of Na<sub>2</sub>CO<sub>3</sub>, heated for 2 hrs. at 97.degree. with 1.05 g. HN(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub>, and salted to give I (R = R<sub>1</sub> = HOCH<sub>2</sub>CH<sub>2</sub>, R<sub>2</sub> = H),  $\lambda_{\text{max}}$  349 m.mu.; it brightened cotton cloth in the presence of glyoxal resin and MgCl<sub>2</sub>. Also prepd. were the following I (R, R<sub>1</sub>, R<sub>2</sub>, and  $\lambda_{\text{max}}$  in m.mu. given): HOCH<sub>2</sub>CH<sub>2</sub>, H, H, 348; (RR<sub>1</sub>N = ) morpholino, Me, 350. A similar product was prepd. by simultaneous addn. of 1:2:1 molar H<sub>2</sub>NCH<sub>2</sub>CHOHMe-II-MeNHCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H.

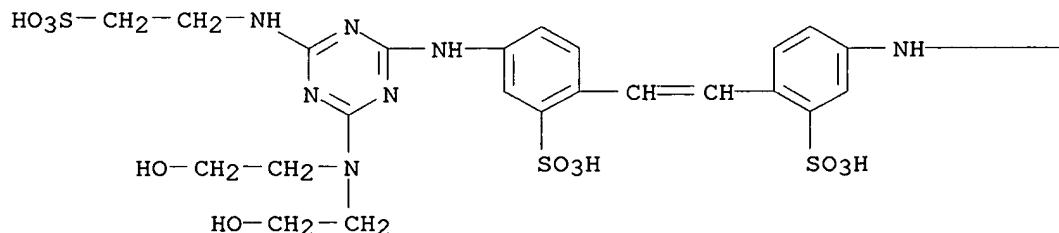
IT 21681-45-8P 21681-46-9P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of)

RN 21681-45-8 CAPLUS

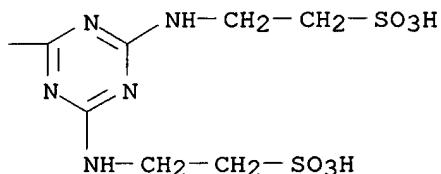
CN 2,2'-Stilbenedisulfonic acid, 4-[[4-[bis(2-hydroxyethyl)amino]-6-[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-4'-[[4,6-bis[(2-sulfoethyl)amino]-s-triazin-2-yl]amino]-, pentasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



●5 Na

PAGE 1-B

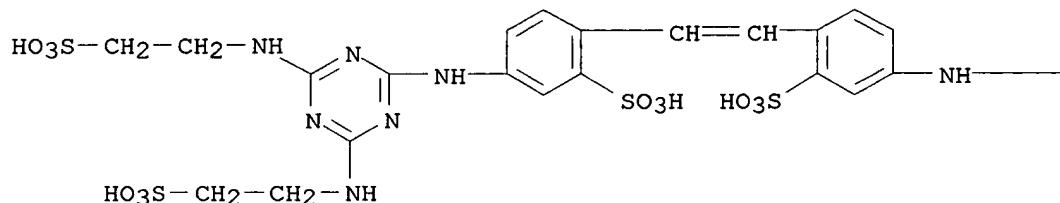


RN 21681-46-9 CAPLUS

CN 2,2'-Stilbenedisulfonic acid,  
4-[[4,6-bis[(2-sulfoethyl)amino]-s-triazin-2-

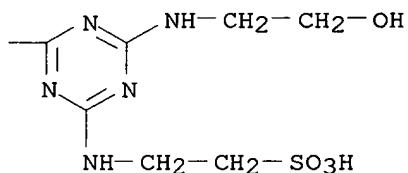
yl]amino]-4'-(4-[(2-sulfoethyl)amino]-s-triazin-2-yl)amino]-, pentasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



● 5 Na

PAGE 1-B



=&gt; log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

71.87

205.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY

SESSION

-10.00

-10.00

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STN INTERNATIONAL LOGOFF AT 18:54:15 ON 17 APR 2001

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